

2/3

=> fil lreg

FILE 'LREGISTRY' ENTERED AT 15:31:03 ON 18 MAY 2004
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LREGISTRY IS A STATIC LEARNING FILE

=> fil beilstein

FILE 'BEILSTEIN' ENTERED AT 15:31:08 ON 18 MAY 2004
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FILE RELOADED ON OCTOBER 20, 2002
FILE LAST UPDATED ON MARCH 30, 2004

FILE COVERS 1771 TO 2003.
*** FILE CONTAINS 8,932,479 SUBSTANCES ***

>>> PLEASE NOTE: Reaction data and substance data are stored in
separate documents and can not be searched together in one
query.
Reaction data for BEILSTEIN compounds may be displayed
immediately with the display codes PRE (preparations) and REA
(reactions). A substance answer set retrieved after the search
for a chemical name, a molecular formula or a structure search
for example can be restricted to compounds with available
reaction information by concatenation with PRE/FA, REA/FA or
more general with RX/FA. The BEILSTEIN Registry Number (BRN)
is the link between a BEILSTEIN compound and belonging reactions.
For more detailed reaction searches BRNs can be selected from
substance answer sets and searched in the next step as reaction
partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN).
After a search for reaction details substance documents
associated with reactants or products may be retrieved by
searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

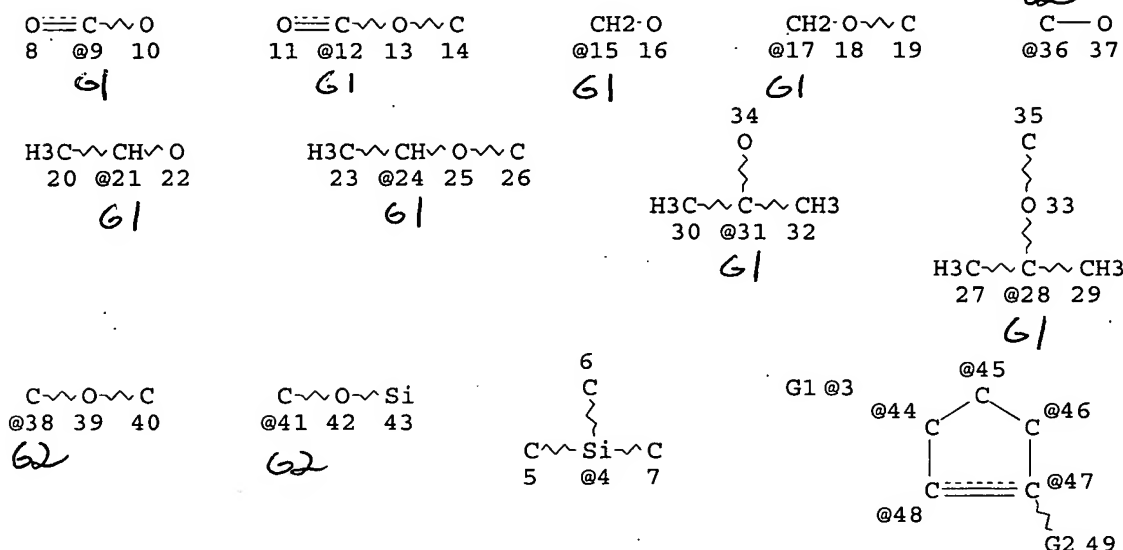
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. *
* FOR PRICE INFORMATION SEE HELP COST *

=> d que l14
L12 STR

L12 STR

Berch PCT/US03/39554 Beilstein

05/19/2004



VAR G1=9/12/15/17/21/24/31/28

VAR G2=36/38/41

VPA 4-48/44/45/46/47 U

VPA 3-48/44/45/46/47 U

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 10

CONNECT IS E1 RC AT 16

CONNECT IS E1 RC AT 22

CONNECT IS E1 RC AT 34

CONNECT IS E1 RC AT 37

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

L13 29 SEA FILE=BEILSTEIN SSS FUL L12

L14 17 SEA FILE=BEILSTEIN ABB=ON PLU=ON L13 NOT (RN/FA)

=>

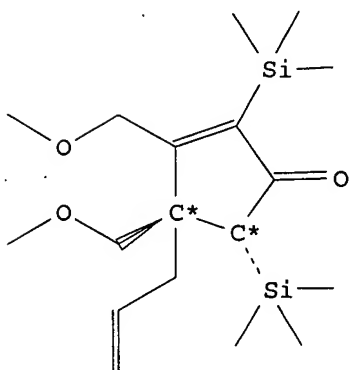
=> d l19 ide pre 1

remove hits that
have CAS RNs

L19 ANSWER 1 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	9508652
Chemical Name (CN):	4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN):	4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF):	C18 H34 O3 Si2
Molecular Weight (MW):	354.64
Lawson Number (LN):	16753, 3777, 289
File Segment (FS):	racemate, Stereo compound

Compound Type (CTYPE): isocyclic
 Constitution ID (CONSID): 8018199
 Tautomer ID (TAUTID): 8915004
 Entry Date (DED): 2004/01/21
 Update Date (DUPD): 2004/01/21



Fragment Notes:

Additionally represents mirror image
 Stereo Descriptor: +/-

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396925
 Reactant BRN (.RBRN): 9498047, 3587215
 Reactant (.RCT): 3,4-bis-methoxymethyl-2,5-bis-

Product BRN (.PBRN): 9508652, 9508651
Product (.PRO): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone,
4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9396925.1
Reaction Classification (.CL): Preparation
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 1 hour(s)
Temperature (.T): -78 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

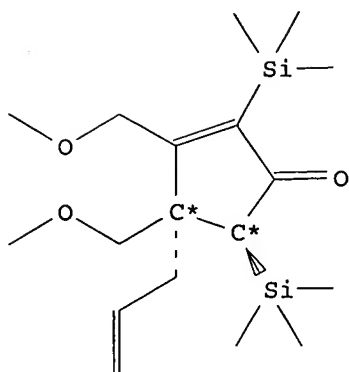
=>

=> d l19 ide pre 2-

YOU HAVE REQUESTED DATA FROM 15 ANSWERS - CONTINUE? Y/(N):y

L19 ANSWER 2 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9508651
Chemical Name (CN): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C18 H34 O3 Si2
Molecular Weight (MW): 354.64
Lawson Number (LN): 16753, 3777, 289
File Segment (FS): racemate, Stereo compound
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8018199
Tautomer ID (TAUTID): 8915004
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Fragment Notes:

Additionally represents mirror image
Stereo Descriptor: +/-

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396925
 Reactant BRN (.RBRN): 9498047, 3587215
 Reactant (.RCT): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilylanyl-cyclopenta-2,4-dienone, isopropylmagnesium bromide
 Product BRN (.PBRN): 9508652, 9508651
 Product (.PRO): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilylanyl-cyclopent-2-enone, 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilylanyl-cyclopent-2-enone
 No. of React. Details (.NVAR): 1

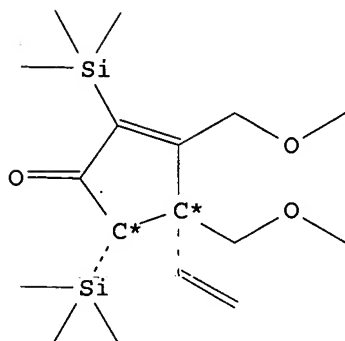
Reaction Details:

RX

Reaction RID (.RID): 9396925.1
Reaction Classification (.CL): Preparation
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 1 hour(s)
Temperature (.T): -78 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 3 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9506094
Chemical Name (CN): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-4-vinyl-cyclopent-2-enone
Autonom Name (AUN): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-4-vinyl-cyclopent-2-enone
Molec. Formula (MF): C17 H32 O3 Si2
Molecular Weight (MW): 340.61
Lawson Number (LN): 16752, 3777, 289
File Segment (FS): racemate, Stereo compound
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8015776
Tautomer ID (TAUTID): 8914050
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Fragment Notes:

Additionally represents mirror image
Stereo Descriptor: +/-

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3

FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396197
Reactant BRN (.RBRN): 9498047, 3535841
Reactant (.RCT): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopenta-2,4-dienone, vinylmagnesium bromide
Product BRN (.PBRN): 9506094
Product (.PRO): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-4-vinyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

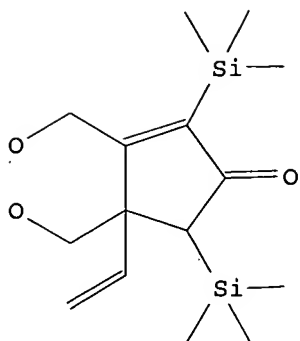
Reaction Details:

RX

Reaction RID (.RID): 9396197.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 87 percent (BRN=9506094)
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 1 hour(s)
Temperature (.T): -78 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14), <2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 4 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9503750
Chemical Name (CN): 3,4-bis-hydroxymethyl-2,5-bis-trimethylsilanyl-4-vinyl-cyclopent-2-enone
Autonom Name (AUN): 3,4-bis-hydroxymethyl-2,5-bis-trimethylsilanyl-4-vinyl-cyclopent-2-enone
Molec. Formula (MF): C15 H28 O3 Si2
Molecular Weight (MW): 312.56
Lawson Number (LN): 16752, 3777
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8017707
Tautomer ID (TAUTID): 8922180
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396184
 Reactant BRN (.RBRN): 9212004, 3535841
 Reactant (.RCT): 3,4-bis-hydroxymethyl-2,5-bis-trimethylsilyl-cyclopenta-2,4-dienone, vinylmagnesium bromide
 Product BRN (.PBRN): 9503750
 Product (.PRO): 3,4-bis-hydroxymethyl-2,5-bis-trimethylsilyl-4-vinyl-cyclopent-2-enone
 No. of React. Details (.NVAR): 1

Reaction Details:

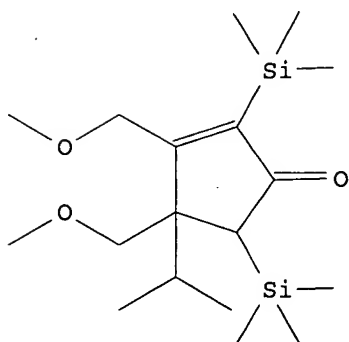
RX

Reaction RID (.RID): 9396184.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 82 percent (BRN=9503750)
 Solvent (.SOL): tetrahydrofuran

Time (.TIM): 1 hour(s)
Temperature (.T): -78 - 23 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 5 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9501820
Chemical Name (CN): 4-isopropyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 4-isopropyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C18 H36 O3 Si2
Molecular Weight (MW): 356.65
Lawson Number (LN): 16754, 3777, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8015939
Tautomer ID (TAUTID): 8912193
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396924
Reactant BRN (.RBRN): 9498047, 3587215
Reactant (.RCT): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopenta-2,4-dienone, isopropylmagnesium bromide
Product BRN (.PBRN): 9506052, 9501820
Product (.PRO): 1-isopropyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopenta-2,4-dienol, 4-isopropyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

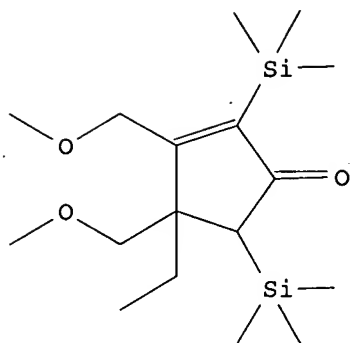
Reaction Details:

RX

Reaction RID (.RID): 9396924.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 50 percent (BRN=9506052), 41 percent (BRN=9501820)
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 1 hour(s)
Temperature (.T): -78 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14), <2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 6 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9501632
Chemical Name (CN): 4-ethyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 4-ethyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C17 H34 O3 Si2
Molecular Weight (MW): 342.62
Lawson Number (LN): 16752, 3777, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8015775
Tautomer ID (TAUTID): 8912670
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396109
 Reactant BRN (.RBRN): 9498047, 3535267
 Reactant (.RCT): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-cyclopenta-2,4-dienone, ethylmagnesium bromide
 Product BRN (.PBRN): 9505897, 9501632
 Product (.PRO): 1-ethyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-cyclopenta-2,4-dienol, 4-ethyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-cyclopent-2-enone
 No. of React. Details (.NVAR): 1

Reaction Details:

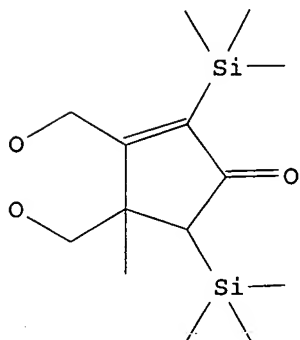
RX

Reaction RID (.RID): 9396109.1
 Reaction Classification (.CL): Preparation

Yield (.YDT): 43 percent (BRN=9505897), 31 percent (BRN=9501632)
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 1 hour(s)
Temperature (.T): -78 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14), <2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 7 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9499803
Chemical Name (CN): 3,4-bis-hydroxymethyl-4-methyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 3,4-bis-hydroxymethyl-4-methyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C14 H28 O3 Si2
Molecular Weight (MW): 300.54
Lawson Number (LN): 16759, 3777
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8014126
Tautomer ID (TAUTID): 8919885
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1

UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9396803
Reactant BRN (.RBRN): 9212004, 3587200
Reactant (.RCT): 3,4-bis-hydroxymethyl-2,5-bis-trimethylsilanyl-cyclopenta-2,4-dienone, methylmagnesium bromide
Product BRN (.PBRN): 9499803
Product (.PRO): 3,4-bis-hydroxymethyl-4-methyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

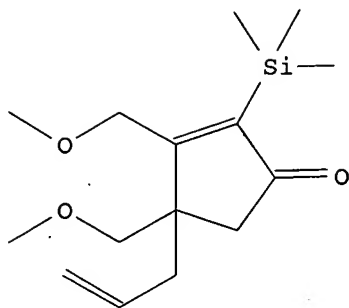
Reaction Details:

RX

Reaction RID (.RID): 9396803.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 95 percent (BRN=9499803)
Solvent (.SOL): tetrahydrofuran, diethyl ether
Time (.TIM): 20 min
Temperature (.T): -78 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14), <2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 8 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9495884
Chemical Name (CN): 4-allyl-3,4-bis-methoxymethyl-2-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 4-allyl-3,4-bis-methoxymethyl-2-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C15 H26 O3 Si
Molecular Weight (MW): 282.45
Lawson Number (LN): 16752, 3777, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8010872
Tautomer ID (TAUTID): 8908233
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX
 Reaction ID (.ID): 9428890
 Reactant BRN (.RBRN): 9504362
 Reactant (.RCT): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-cyclopent-2-enone
 Product BRN (.PBRN): 9495884
 Product (.PRO): 4-allyl-3,4-bis-methoxymethyl-2-trimethylsilyl-cyclopent-2-enone
 No. of React. Details (.NVAR): 1

Reaction Details:

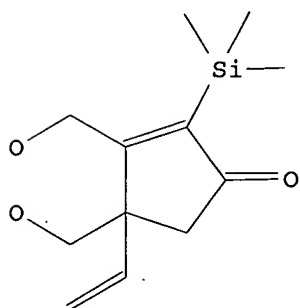
RX
 Reaction RID (.RID): 9428890.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 95 percent (BRN=9495884)
 Reagent (.RGT): NaOH
 Solvent (.SOL): ethanol
 Time (.TIM): 1 hour(s)
 Temperature (.T): 50 Cel

Reference(s):

1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14), <2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 9 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9493063
Chemical Name (CN): 3,4-bis-hydroxymethyl-2-trimethylsilanyl-4-vinyl-cyclopent-2-enone
Autonom Name (AUN): 3,4-bis-hydroxymethyl-2-trimethylsilanyl-4-vinyl-cyclopent-2-enone
Molec. Formula (MF): C12 H20 O3 Si
Molecular Weight (MW): 240.37
Lawson Number (LN): 16759, 3777
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8008377
Tautomer ID (TAUTID): 8915708
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1

RXPRO Substance is Reaction Product 1

Reaction:

RX

Reaction ID (.ID): 9428688
Reactant BRN (.RBRN): 9503750
Reactant (.RCT): 3,4-bis-hydroxymethyl-2,5-bis-trimethylsilyl-4-vinyl-cyclopent-2-enone
Product BRN (.PBRN): 9493063
Product (.PRO): 3,4-bis-hydroxymethyl-2-trimethylsilyl-4-vinyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

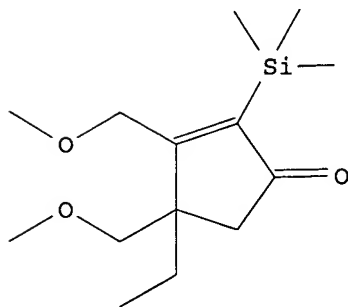
Reaction Details:

RX

Reaction RID (.RID): 9428688.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 87 percent (BRN=9493063)
Reagent (.RGT): NaOH
Solvent (.SOL): ethanol
Time (.TIM): 1 hour(s)
Temperature (.T): 50 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14), <2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 10 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9491361
Chemical Name (CN): 4-ethyl-3,4-bis-methoxymethyl-2-trimethylsilyl-cyclopent-2-enone
Autonom Name (AUN): 4-ethyl-3,4-bis-methoxymethyl-2-trimethylsilyl-cyclopent-2-enone
Molec. Formula (MF): C14 H26 O3 Si
Molecular Weight (MW): 270.44
Lawson Number (LN): 16759, 3777, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8006796
Tautomer ID (TAUTID): 8905384
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9428041
Reactant BRN (.RBRN): 9501632
Reactant (.RCT): 4-ethyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Product BRN (.PBRN): 9491361
Product (.PRO): 4-ethyl-3,4-bis-methoxymethyl-2-trimethylsilanyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

Reaction Details:

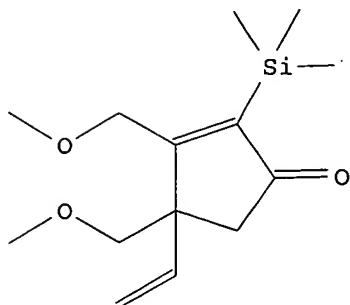
RX

Reaction RID (.RID): 9428041.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 93 percent (BRN=9491361)
Reagent (.RGT): NaOH
Solvent (.SQL): ethanol
Time (.TIM): 1 hour(s)
Temperature (.T): 50 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 11 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9491360
Chemical Name (CN): 3,4-bis-methoxymethyl-2-trimethylsilanyl-4-vinyl-cyclopent-2-enone
Autonom Name (AUN): 3,4-bis-methoxymethyl-2-trimethylsilanyl-4-vinyl-cyclopent-2-enone
Molec. Formula (MF): C14 H24 O3 Si
Molecular Weight (MW): 268.43
Lawson Number (LN): 16759, 3777, 289
Compound Type (CTYPE): isocyclic

Constitution ID (CONSID): 8006795
Tautomer ID (TAUTID): 8905385
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9429397
Reactant BRN (.RBRN): 9506094
Reactant (.RCT): 3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-4-vinyl-cyclopent-2-enone
Product BRN (.PBRN): 9491360
Product (.PRO): 3,4-bis-methoxymethyl-2-trimethylsilyl-4-vinyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

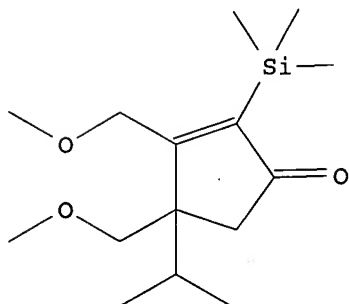
Reaction Details:

RX

Reaction RID (.RID): 9429397.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 91 percent (BRN=9491360)
Reagent (.RGT): NaOH
Solvent (.SOL): ethanol
Time (.TIM): 1 hour(s)
Temperature (.T): 50 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 12 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9491336
Chemical Name (CN): 4-isopropyl-3,4-bis-methoxymethyl-2-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 4-isopropyl-3,4-bis-methoxymethyl-2-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C15 H28 O3 Si
Molecular Weight (MW): 284.47
Lawson Number (LN): 16753, 3777, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8006777
Tautomer ID (TAUTID): 8905394
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1

NMR Nuclear Magnetic Resonance 3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9428097
Reactant BRN (.RBRN): 9501820
Reactant (.RCT): 4-isopropyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Product BRN (.PBRN): 9491336
Product (.PRO): 4-isopropyl-3,4-bis-methoxymethyl-2-trimethylsilanyl-cyclopent-2-enone
No. of React. Details (.NVAR): 1

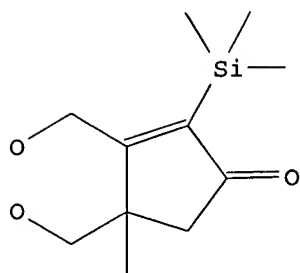
Reaction Details:

RX

Reaction RID (.RID): 9428097.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 94 percent (BRN=9491336)
Reagent (.RGT): NaOH
Solvent (.SOL): ethanol
Time (.TIM): 1 hour(s)
Temperature (.T): 50 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 13 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9488323
Chemical Name (CN): 3,4-bis-hydroxymethyl-4-methyl-2-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 3,4-bis-hydroxymethyl-4-methyl-2-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C11 H20 O3 Si
Molecular Weight (MW): 228.36
Lawson Number (LN): 16758, 3777
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8004239
Tautomer ID (TAUTID): 8914464
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 9427536
 Reactant BRN (.RBRN): 9499803
 Reactant (.RCT): 3,4-bis-hydroxymethyl-4-methyl-2,5-bis-trimethylsilyl-cyclopent-2-enone
 Product BRN (.PBRN): 9488323
 Product (.PRO): 3,4-bis-hydroxymethyl-4-methyl-2-trimethylsilyl-cyclopent-2-enone
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

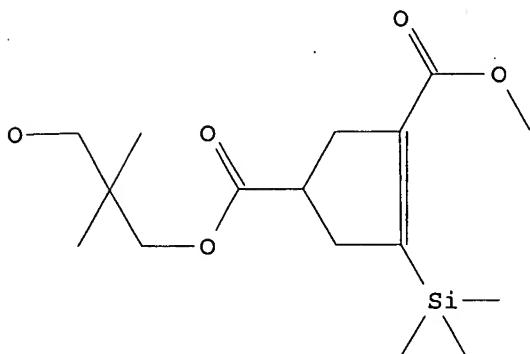
Reaction RID (.RID): 9427536.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 94 percent (BRN=9488323)
 Reagent (.RGT): NaOH
 Solvent (.SOL): ethanol
 Time (.TIM): 1 hour(s)
 Temperature (.T): 50 Cel

Reference(s):

1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

L19 ANSWER 14 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 7541649
Chemical Name (CN): 4-trimethylsilanyl-cyclopent-3-ene-1,3-dicarboxylic acid 1-(3-hydroxy-2,2-dimethyl-propyl) ester 3-methyl ester
Autonom Name (AUN): 4-trimethylsilanyl-cyclopent-3-ene-1,3-dicarboxylic acid 1-(3-hydroxy-2,2-dimethyl-propyl) ester 3-methyl ester
Molec. Formula (MF): C16 H28 O5 Si
Molecular Weight (MW): 328.48
Lawson Number (LN): 16757, 3777, 543, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 6445638
Tautomer ID (TAUTID): 7137236
Beilstein Citation (BSO): 6-16
Entry Date (DED): 1997/02/02
Update Date (DUPD): 1997/11/18



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 4517087
 Reactant BRN (.RBRN): 4177162, 1930203
 Reactant (.RCT): 6,6-Dimethyl-1-methylen-4,8-dioxaspiro<2.5>octan, 3-Trimethylsilylmethylpropiolat
 Product BRN (.PBRN): 7541649
 Product (.PRO): 4-trimethylsilanyl-cyclopent-3-ene-1,3-dicarboxylic acid 1-(3-hydroxy-2,2-dimethyl-propyl) ester 3-methyl ester
 No. of React. Details (.NVAR): 1

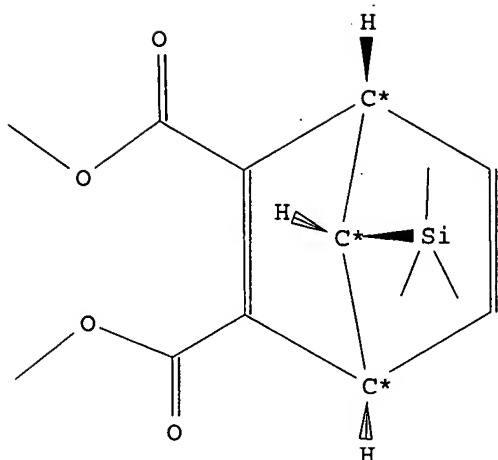
Reaction Details:

RX

Reaction RID (.RID): 4517087.1
 Reaction Classification (.CL): Preparation
 Reagent (.RGT): 2.) Amberlyst 15
 Other Conditions (.COND): 1.) CD₃CN, 80 deg C, 18 h, 2.) CDCl₃, H₂O, 30 min
 Note(s) (.COM): Yield given. Multistep reaction
 Reference(s):
 1. Yamago, Shigeru; Ejiri, Satoshi; Nakamura, Eiichi, Angew.Chem., CODEN: ANCEAD, 107(19), <1995>, 2338-2340; BABS-6026490

L19 ANSWER 15 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6700373
 Chemical Name (CN): 7-trimethylsilanyl-bicyclo<2.2.1>hepta-2,5-diene-2,3-dicarboxylic acid dimethyl ester
 Autonom Name (AUN): 7-trimethylsilanyl-bicyclo<2.2.1>hepta-2,5-diene-2,3-dicarboxylic acid dimethyl ester
 Molec. Formula (MF): C₁₄ H₂₀ O₄ Si
 Molecular Weight (MW): 280.40
 Lawson Number (LN): 16754, 3777, 289
 File Segment (FS): Stereo compound
 Compound Type (CTYPE): isocyclic
 Constitution ID (CONSID): 2749616
 Tautomer ID (TAUTID): 2930989
 Beilstein Citation (BSO): 5-16
 Entry Date (DED): 1994/07/15
 Update Date (DUPD): 1994/07/19



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 1324814
 Reactant BRN (.RBRN): 1924523, 607063
 Reactant (.RCT): cyclopenta-2,4-dienyl-trimethyl-silane,
 butynedioic acid dimethyl ester
 Product BRN (.PBRN): 6700373
 Product (.PRO): Bis-(methoxycarbonyl)-7-anti-
 trimethylsilyl-bicyclo<2.2.1>heptadien-
 (2,5)
 No. of React. Details (.NVAR): 1

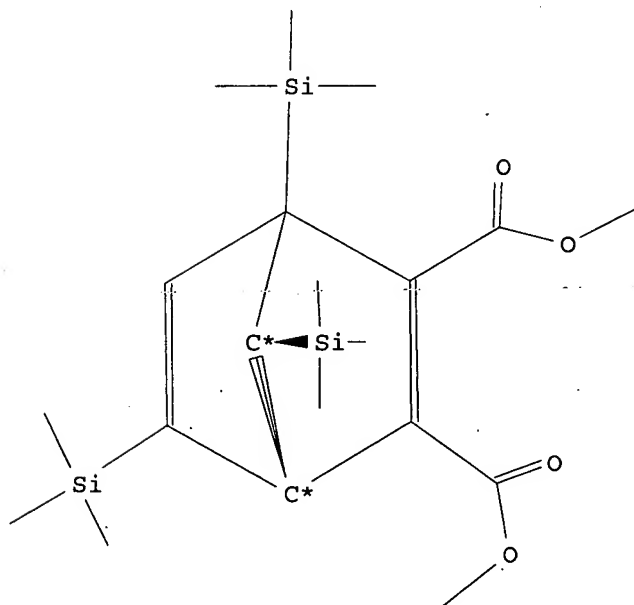
Reaction Details:

RX

Reaction RID (.RID): 1324814.1
Reaction Classification (.CL): Preparation
Reference(s):
1. Kraihanzel, C.S.; Losee, M.L., J. Amer. Chem. Soc., CODEN: JACSAT, 90,
<1968>, 4701-4705

L19 ANSWER 16 OF 16 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3012512
Chemical Name (CN): 1,5,7-tris-trimethylsilanyl-
bicyclo<2.2.1>hepta-2,5-diene-2,3-
dicarboxylic acid dimethyl ester
Autonom Name (AUN): 1,5,7-tris-trimethylsilanyl-
bicyclo<2.2.1>hepta-2,5-diene-2,3-
dicarboxylic acid dimethyl ester
Molec. Formula (MF): C20 H36 O4 Si3
Molecular Weight (MW): 424.76
Lawson Number (LN): 16756, 3777, 289
File Segment (FS): Stereo compound
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 2783710
Tautomer ID (TAUTID): 2947797
Beilstein Citation (BSO): 5-16
Entry Date (DED): 1989/07/11
Update Date (DUPD): 1989/07/11



Field Availability:

Code	Name	Occurrence
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BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Reaction:

RX

Reaction ID (.ID): 8009536
Product BRN (.PBRN): 3012512
Product (.PRO): 1,5,7-tris-trimethylsilanyl-
bicyclo<2.2.1>hepta-2,5-diene-2,3-
dicarboxylic acid dimethyl ester
No. of React. Details (.NVAR): 1

Reaction Details:

RX

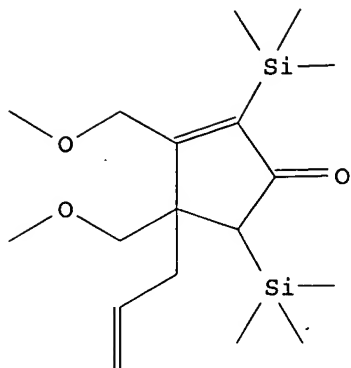
Reaction RID (.RID): 8009536.1
Reaction Classification (.CL): Preparation (half reaction)
Reference(s):
1. Ustynyuk et al., J.Organomet.Chem., CODEN: JORCAI, 96, <1975>, 335,337,339,340,351,352

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L20 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9504362
Chemical Name (CN): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Autonom Name (AUN): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilanyl-cyclopent-2-enone
Molec. Formula (MF): C18 H34 O3 Si2
Molecular Weight (MW): 354.64
Lawson Number (LN): 16753, 3777, 289
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 8018199
Tautomer ID (TAUTID): 8913519
Entry Date (DED): 2004/01/21
Update Date (DUPD): 2004/01/21



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXREA	Substance is Reaction Reactant	1

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L20 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX

Reaction ID (.ID): 9428890
 Reactant BRN (.RBRN): 9504362
 Reactant (.RCT): 4-allyl-3,4-bis-methoxymethyl-2,5-bis-trimethylsilyl-cyclopent-2-enone
 Product BRN (.PBRN): 9495884
 Product (.PRO): 4-allyl-3,4-bis-methoxymethyl-2-trimethylsilyl-cyclopent-2-enone
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9428890.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 95 percent (BRN=9495884)
Reagent (.RGT): NaOH
Solvent (.SOL): ethanol
Time (.TIM): 1 hour(s)
Temperature (.T): 50 Cel
Reference(s):
1. Pearson, Anthony J.; Kim, Jin Bum, Org.Lett., CODEN: ORLEF7, 5(14),
<2003>, 2457 - 2460; BABS-6411831

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